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| 4. TITLE AND SUBTITLE DOTC Initiative 0225 November 2013 Final Technical Report to ATI | | 5a. CONTRACT NUMBER W15QKN-09-9-1001 | | |
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| | | 5c. PROGRAM ELEMENT NUMBER N/A | | |
| 6. AUTHOR(S) Kristen Wesner, AMERICAN SYSTEMS- PROGRAM MANAGER 973-580-1460 kristen.wesner@americansystems.com | | 5d. PROJECT NUMBER DOTC 10-01-INIT225 | | |
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| 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) AMERICAN SYSTEMS 14151 Park Meadow Drive Suite 500 | | 8. PERFORMING ORGANIZATION REPORT NUMBER Init 0225 Report 11202013 | | |
| 9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) Robert Koch- Picatinny Arsenal, NJ, ARDEC 973-724-3447 robert.p.koch4.civ@mail.mil | | 10. SPONSOR/MONITOR'S ACRONYM(S) | | |
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| 14. ABSTRACT American Systems Corporation has provided professional engineering, analysis, and cost data support to the Force protection & EFP Warheads group. By assisting the engineer in setting up testing schedules, liaising between test site and engineer, assisting in evaluating test data, analyzing cost data, and writing technical reports from raw data, American System Corporation has greatly contributed to the branches ability to rapidly test/evaluate material and armor concepts and to get them to to the user for further test and evaluation and ultimately and more rapidly to the end user; the soldier. | | | | |
| 15. SUBJECT TERMS Warheads; Force Protection; munitions; testing schedules; test data; cost data; testing; technical reporting | | | | |
| 16. SECURITY CLASSIFICATION OF: | | | 17. LIMITATION OF ABSTRACT | 18. NUMBER OF PAGES |
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| | | | | 19a. NAME OF RESPONSIBLE PERSON |
| | | | | 19b. TELEPHONE NUMBER (include area code) |

Final Technical Status Report

for

Test and Evaluation for Force Protection Initiatives

Initiative No. INIT225

Reporting Period: Aug 11th 2010 – Nov 20th 2013

American Systems Corporation

Initiative Team Technical POC

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Submitted: 11/20/2013

1. Comments on Technical/Cost/Schedule Performance

Technical: American Systems Corporation provides engineering, analysis, and cost data support to the Force protection & EFP Warheads group. Assisting the engineer in setting up testing schedules, liaising between test site and engineer, analyzing cost data; contributing to the branches ability to rapidly test/evaluate material and armor concepts and to get them into the user for test and evaluation.

Cost: American Systems Corp. expended a total of \$3,235,131 to support Force Protection and engineering efforts for Test and Evaluation projects and the final report.

Schedule: Work is complete.

2. Initiative Quad Chart

| Conversion of Munitions Components into Higher Value Products | | | |
|--|--|---|--|
| Goals & Objectives | | Initiative Information | |
| To provide ongoing engineering and cost analysis, engineering support, research and scheduling and technical writing support to Force Protection & Warhead Branch to enhance the branches ability to test and evaluate Force Protection initiatives. | | Initiative Lead: American Systems Corporation Team Members: Force Protection and Explosively Formed Penetrator (FP&EFP) Branch, US Army RDECOM-ARDEC Period of Performance: 28 months Funding: \$3,235,131 | |
| Milestones & Technical Achievements | | Implementation & Payoff | |
| 2-3 | Provide Engineering Support to Force Protection & EFP Branch | Schedule: Nov 2013 Status: 100% | |
| | | | |
| | | Provide qualified engineering support personnel. | |
| Current Status: Technical = Green Schedule = Green Cost = Green | | | |

3. Supplemental Information

In order to improve the usefulness of the quad charts and provide DOTC with sufficient initiative information, the Final Report must be supplemented with data described below:

3.1 Technical Achievements American Systems Corporation has provided professional engineering, analysis, and cost data support to the Force protection & EFP Warheads group. By assisting the engineer in setting up testing schedules, liaising between test site and engineer, assisting in evaluating test data, analyzing cost data, and writing technical reports from raw data, American System Corporation has greatly contributed to the branches ability to rapidly test/evaluate material and armor concepts and to get them to to the user for further test and evaluation and ultimately and more rapidly to the end user; the soldier.

During the period from August 2010 through November 2013 American Systems was able to coordinate specific test requirements for different *reactive armor and other materials* at Picatinny Arsenal Warheads Test facility. Retrieve and analyze x-ray data and provide written post-test results on multiple Warhead tests. Coordinated workload for explosive loading scheduled for testing. Create and update test schedule for Warheads Test facility; monitor costs. Modified target materials to meet specific armor test set-ups. Prepared or edited presentation charts and posters. Prepared and edited GANT Charts and Abstracts and supported engineers in preparation of Cooperative Research and Development Agreements (CRDA) and other procurement initiatives. Monitor funding usage and dispersal through contract and in-house obligations. Work closely with government programmers to establish, transfer, or redistribute funding. Reconcile contracts. Analyze data between two accounting systems; advise department immediately of variances or discrepancies found. Research and liaise between FP&EFP Branch and Garrison in establishing recertification classification process and Intrusion Technology System (IDS) in regard to stand alone computer system with members of ARDEC IT community. Assumed time-keeper role for Force Protection and Warheads Branch. Edited, formatted, and formulated various technical reports for senior engineers to include Technical Achievement criteria, various summaries of on-going or proposed testing initiatives, presentation charts and posters. Prepared, edited, or reformatted multiple Abstracts, Technical papers, Factor IV submissions, outlines, and Power-point slides. Participate, in an advisory capacity, at meetings or in telecoms on funding and acquisition issues, test schedules, and paper submissions. Work with Explosive Ordnance Disposal Division and Non-Standard Ammunition Branch in obtaining targets for testing. Update and perform maintenance on router, firewall, IPS, and crypto systems for FIO. Update several databases including APMS and C&A data bases. Perform ongoing HBSS configuration and maintenance. Actively participate in Defense Agency Initiative (DAI) General Funds Enterprise Business System (GFEBS) (new DoD wide accounting system) conversion from SAP. Proactively monitor funding on various programs anticipating impact of Sequestration on government funding. Edit and format various technical reports for senior engineers to include classified presentations and posters. Prepare, edit, or reformat more than ten Abstracts and Technical papers for submission to higher headquarters. Prepare and edit *Factor IV* nomination justification at the GS-14 and GS-15 level. Ran blast simulations in CTH and compared results to experimental data. Meshed complicated geometries, produced detailed drawings for hardware, and ran various LS-DYN simulation models. Documented Furlough notifications, usage reports, and monitor compliance with directed furlough protocol.

Milestone Status

| Milestone No. | Deliverable Description | Due Date | % Completed |
|----------------------|--|-----------------|--------------------|
| 1 | Initiative Management Plan | 8/1/2010 | 100% |
| 2 | Quarterly business and technical status report | 9/20/2010 | Waived |
| 3 | Quarterly business and technical status report | 12/20/2010 | 100% |
| 4 | Quarterly business and technical status report | 3/20/2011 | 100% |
| 5 | Quarterly business and technical status report | 6/20/2011 | 100% |
| 6 | Annual Technical Report | 8/1/2011 | 100% |
| 7 | Quarterly business and technical status report | 9/20/2011 | 100% |
| 8 | Quarterly business and technical status report | 12/20/2011 | 100% |
| 9 | Quarterly business and technical status report | 3/20/2012 | 100% |
| 10 | Quarterly business and technical status report | 6/20/2012 | 100% |
| 11 | Annual Technical Report | 8/1/2012 | |
| 12 | Quarterly business and technical status report | 9/20/2012 | 100% |
| 13 | Quarterly business and technical status report | 12/20/2012 | 100% |
| 14 | Quarterly business and technical status report | 3/20/2013 | 100% |
| 15 | Quarterly business and technical status report | 6/20/2013 | 100% |
| 16 | Quarterly business and technical status report | 9/20/2013 | 100% |
| 17 | Final Technical Report | 11/20/2013 | 100% |
| 18 | Final Business Status Report | 11/20/2013 | 100% |
| | | | |
| | | | |

3.2 Technical Readiness Level Status and Technology Transfer Information:

Technical Readiness Level 4: Basic technology components are being studied, tested, and integrated into developmental warheads to establish that the components will work together.

Technology Transfer

- None

3.3 Problems Encountered and Action Taken

- None

3.4 Non Traditional Defense Contractor Participation/Technology Transfer

- None

3.5 Plans for Next Quarter: Deliver the following to the Government:

| | |
|--|-----|
| | N/A |
| | |
| | |
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| | |

Final Business Status Report

for

Test and Evaluation for Force Protection Initiatives

Initiative No. INIT225

Reporting Period: Aug 11th 2010 – Nov 20th 2013

American Systems Corporation

Initiative Team Technical POC

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Ordinance Technology Initiative Summary Information

| | |
|-------------------------------|--------------|
| Total Initiative Cost: | \$3,235,131 |
| Total Estimated Cost Share: | \$3,235,131 |
| Total Funds Obligated: | \$3,235,131 |
| Total Funds Invoiced: | \$3,235,131 |
| Date of Last Invoice: | Nov 14, 2013 |
| Total Cost of Share Reported: | \$3,235,131 |

Ordinance Technology Initiative Resource/Cost Information:

The following resources/costs are applicable to this initiative for the period August 2010 through November 20th 2013

| Organization | Total Initiative Planned Cost | Initiative Planned Cost to Date | Initiative Estimated Cost to Date | Comments (required for any significant deviations from plan) |
|------------------------|--------------------------------------|--|--|---|
| American Systems Corp. | \$3,235,131 | \$3,235,131 | \$3,235,131 | None |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Total | \$3,235,131 | \$3,235,131 | \$3,235,131 | |

Non-tradition Contractor: N

Problems Encountered and Action Taken

None

Interest Earned \$ 0